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would appeal to an average and casual reader. But beyond that general statement of the place which this volume may, perhaps, fill we hardly care to go. Mr. Henkel writes like a lover of the science who, in an amateurish sort of way, has read a few meteorological text-books and journals, and has put down, without much attempt at order or system, some rather rambling comments on meteorological subjects. The arrangement of the chapters is singularly illogical. There is very frequent repetition throughout the book, and in some cases the repetition brings contradiction, or at least disagreement, between the earlier and later statements. The book is full of inaccuracies and errors, and is often far behind the times. Howard's cloud nomenclature is given, but there is not a word about the standard International Classification. Mixture is evidently regarded by the author as an effective cause of condensation, and he also still clings to that unfortunate idea that the cooling "by contact with the hill tops" is the principal cause of heavy rainfall in mountainous regions. We confess that we do not know what is meant (p. 101) by "the descent of the return trades brings abundance of rain," nor (p. 106) by "tropical cyclones causing storms." Some of the residents in Utah would probably resent the statement that the Salt Lake district is the driest region in the United States. And that "every cloud is the visible top of a column of invisible water vapor," while it has some grain of truth hidden away in it, is a statement which ought to be combated by many school children. We cannot help wondering who (p. 120) "Professor Reye of America" may have been. There is a singular fatality about the letter *s* in the spelling of Buy Ballot (p. 150), Glaishers (p. 155) and Alacka (p. 192). We are not in the habit of using "barber" for blizzard in this country, nor of thinking that ocean currents are due primarily to differences of specific gravity (p. 196).

There are a few illustrations, mostly of instruments, and only two charts, of small size. We are glad, however, to call attention to the excellent cloud picture which forms the frontispiece—a most artistic view—and to the photograph reproduced opposite p. 140, showing the funnel and masts of a steamer whose hull is hidden in the fog (not a "ground fog" as the legend underneath asserts). Both of these pictures were taken by Captain Wilson Barker.

R. DEC. WARD.

OTHER BOOKS RECEIVED

NORTH AMERICA

These notes do not preclude more extended reference later

IMMIGRANT RACES IN NORTH AMERICA. By Peter Roberts. 109 pp. Maps, ills. Young Men's Christian Ass'n. Press, New York. 1910. 50 cents. 8 x 5½.

GOOD ROADS PARTY. From States of Arkansas, Oklahoma, Lousiana, Texas. On Tour of Inspection through Eastern States. 148 pp. Ills., index. 1909. [Contrasts road-building here and abroad; describes road-building in New Jersey, New Hampshire, Massachusetts, Rhode Island, Connecticut and New York and gives a condensed history of road-making, road-legislation, etc.]

GUIDA DEGLI STATI UNITI PER L'IMMIGRANTE ITALIANO. Pubblicata a cura della Societa delle Figlie della Rivoluzione Americana, Sezione di Connecticut. By John Foster Carr. 85 pp. Map, ills. Doubleday, Page & Co., New York., 1910. 15 cents. 7½ x 5. [A useful guide for Italian peasants arriving in this country; with many suggestions as to their procedure from the time of their arrival, societies and schools designed to help them, distribution of their countrymen in various states, etc.]

A GUIDEBOOK TO COLORADO. By Eugene Parsons. xxxii and 390 pp. Maps, ills., index. Little, Brown & Co., Boston. 1911. 7½ x 5. [Describes the State by counties. This plan may be useful to those who are visiting or investigating special localities, but it does not admit of an orderly treatment of aspects which appeal most to the tourist. Nothing is omitted, however, that may interest either the traveller or the intending settler.]

PLACE-NAMES IN QUEBEC. By James White. Part II: Ninth Report of the Geographic Board of Canada, 1910. Sessional Paper No. 21a, pp. 153-455. Maps. [Gives the origin of many place names, lists of expeditions and explorers in Northern Canada (1576-1910) and bibliography of principal works consulted in preparing the volume.]

EXPLORATION OF CERTAIN IRON-ORE AND COAL DEPOSITS in the State of Oaxaca, Mexico. By J. L. W. Birkinbine. Maps, ills. Transactions of the American Institute of Mining Engineers, pp. 671-693. [A paper read before the American Institute of Mining Engineers, at the Pittsburg Meeting, March, 1910.]

CUBA AND HER PEOPLE OF TO-DAY. An account of the history and progress of the island previous to its independence; a description of its physical features; a study of its people; and, in particular, an examination of its present political conditions, its industries, natural resources, and prospects; together with information and suggestions designed to aid the prospective investor or settler. By Forbes Lindsay. xii and 329 pp. Map, ills., index, appendices. L. C. Page & Co., Boston, 1911. 8 x 5½.

DER PANAMAKANAL. Die Bedeutung des Kanalbaues, seine Technik und Wirtschaft. Von Max D. Fiegel. vii and 183 pp. Map, ills. Dietrich Reimer (Ernst Vohsen). Berlin, 1911. M. 4. 9 x 6. [Treats of the plan of the canal, methods, labor and machinery used, the government of the Canal Zone, and the importance of the canal in relation to many countries and ports. One of the best books on the subject.]

SOUTH AMERICA

DIE ENTWICKELUNG DER FABRIKINDUSTRIE IN LATEINISCHEN AMERIKA. Von Frhr. von Gemmingen. Angewandte Geographie, III. Serie, 10. Heft. 198 pp. Gebauer-Schwetschke Druckerei, Halle a. S. 1910. Mk. 4. 8½ x 6. [As comparatively little has been written on the present status of the industrial development of Latin American countries, this careful study is especially timely. The larger attention is naturally given to Argentina, where the greatest advance in manufacturing has been made.]

MONOGRAFÍA DE LA INDUSTRIA DE LA GOMA ELÁSTICA EN BOLIVIA. Por Manuel V. Ballivián y Casto F. Pinilla. v and 354 and lxxxiv pp. Map. Dirección General de Estadistica y Estudios Geográficos, Bolivia. 1912.

COMPENDIO DE COROGRAPHIA DO BRASIL de Accôrdo com o Programma do Gymnasio Nacional. Pelo Dr. Feliciano Pinheiro Bittencourt. Second edition, revised and augmented. 381 and viii pp. Maps, ills. Francisco Alves, Rio de Janeiro. 1910. 7 x 5. [A good, condensed treatment of the geography and activities of Brazil modeled on recent French school geographies.]

FLORA DER UMGEBUNG DER STADT SÃO PAULO IN BRASILIEN. Von Dr. A. Usteri. 271 pp. Map, ills., index. Gustav Fischer, Jena, 1911. Mk. 7. 10 x 6½. [A thorough study of the flora in the neighborhood of the city of São Paulo with discussion of the plants peculiar to the dry lands and the swamps; also a list of the plants (155 pp.) with description in Latin of each variety.]

LES FRANÇAIS AU BRÉSIL ET EN FLORIDE (1530-1568). Par Eugène Guénin. Premiers essais de colonisation. 100 pp. Eugène Bigot, Paris. 1910. Fr. 2.50. 7½ x 5.

AFRICA

IN AFRICA (LETTERE DALL' ERITREA). Di Giotto Dainelli. Parte Prima: Lungo l'Anseba e sull'altipiano abissino. 184 pp. Maps, ills. Parte Seconda: Lungo le pendici dell'altipiano abissino e in Dancalia. 201 pp. Maps, ills. Serie Viaggi. Istituto Italiano d'Arti Grafiche-Editore, Bergamo. 1910. L6.50 each. 10½ x 7½ each. [Good geographical descriptions and superior maps and photo-engravings.]

HAUSA SAYINGS AND FOLK-LORE WITH A VOCABULARY OF NEW WORDS. Compiled and edited by Roland S. Fletcher. 173 pp. Oxford University Press, New York. 1912. 3s 6d. 7½ x 5.

ORIENTAL CAIRO. The City of the "Arabian Nights." By Douglas Sladen. xvi and 391 pp. Map, ills., index, appendices. J. B. Lippincott Co., Philadelphia, 1911. $5. 9 x 6½. [This book is to be commended to the public and especially to those who expect to visit Cairo.]

NORD-TOGO UND SEINE WESTLICHE NACHBARSCHAFT. In Bildern und Skizzen für Missions und Kolonialfreunde. Von R. Fisch. 189 pp. Map, ills. Basler Missionsbuchhandlung, Basel. 1911. 40c. 7½ x 5. [Informing descriptions of North Togo based on missionary journeys in 1910.]

ASIA

BEITRÄGE ZUR GEOLOGIE OST-ASIENS UND AUSTRALIENS. Mit Unterstützung des Niederländischen Ministeriums der Colonien. Herausgegeben von K. Martin. Sammlungen des Geol. Reichsmuseums in Leiden. 107 pp. Ills. E. J. Brill, Leiden. 1911. Mk. 9.50. 9½ x 6½.

PEOPLES AND PROBLEMS OF INDIA. By Sir T. W. Holderness. Home University Library. 256 pp. Index, bibliogr. Henry Holt & Co., New York. 1912. 50 cents. 7 x 4½.

AUSTRALASIA AND OCEANIA

AUSTRALIEN UND NEUSEELAND, Land. Leute und Wirtschaft. Von Dr. Robert Schachner. Aus Natur und Geisteswelt. viii and 120 pp. Maps, ills. B. G. Teubner, Leipzig, 1912. Mk. 1.25. 7½ x 5. [An admirable and comprehensive though condensed study of Australia and New Zealand.]

OFFICIAL YEAR BOOK OF THE COMMONWEALTH OF AUSTRALIA. Containing Authoritative Statistics for the Period 1901-1910 and Corrected Statistics for the Period 1788 to 1900. No. 4. 1911. By G. H. Knibbs. xxvii and 1230 pp. Maps, index. Commonwealth Bureau of Census and Statistics. Melbourne.

THE ROMANCE OF AUSTRALIA, Its Discovery and Colonisation. Adventures of its Explorers and Settlers. Edited by Herbert Strang. xi and 640 pp. Ills. Hodder & Stoughton, London, 1911. 6s. 8½ x 6.

NEW ZEALAND. By Sir Robert Stout and J. Logan Stout. 185 pp. Ills., index. University Press, Cambridge. 1911. G. P. Putnam's Sons, New York. 40 cents. 6½ x 5. [Tells briefly what New Zealand is and what has been done by her people.]

DE REIS VAN MR. JACOB ROGGEVEEN TER ONTDEKKING VAN HET ZUIDLAND (1721-1722) verzameling van stukken, deze reis en de daaraan voorafgaande ontdekkingsplannen van Arend Roggeveen (1675-1676) betreffende, uitgegeven door F. E. Baron Mulert. xxvii and 331 pp. Maps, ills. Linschoten Vereeniging. 1911. Martinus Nijhoff, The Hague. 10 x 7.

EUROPE

MEDIEVAL EUROPE. By H. W. C. Davis. Home University Library. 256 pp. Map. Henry Holt & Co., New York. 1911. 7 x 5. [Among the best works in this handy volume series.]

BAU UND BODEN DER BALEARISCHEN INSELN. Beiträge zur Landeskunde der Inselgruppe. Von Dr. Hans Praesent. Sonderabdruck aus dem 13. Jahresbericht der Geogr. Gesell. Greifswald, 1911-12, pp. 19-106. Map, ills. [A critical study of the map material and the geological and geographical literature covering the Balearic group, with detailed descriptions of the islands. Finely illustrated.]

VERGLEICHENDE UNTERSUCHUNGEN über die Vegetationsformationen des inneren Nordwestdeutschland, insbesondere die der Floren von Hannover, Göttingen und Ober-Harz. Inaugural-Dissertation. Von Paul Thormeyer. 123 pp. Göttingen, 1910.

GRIECHENLAND. Land, Leute und Denkmäler. Band 1: Athen und Attika. Von Adolf Struck. 204 pp. Map, plan, ills. A. Hartleben's Verlag, Vienna and Leipzig, 1911. Mk. 5. 10 x 7. [A well arranged description of Athens and Attica with 226 illustrations, mostly from photo-engravings, and good maps.]

POLAR

SPITSBERGENS NATUR OG HISTORIE. Af Gunnar Holmsen. 111 pp. Maps. ills. Olaf Norlis Forlag, Kristiania. 1911. 9½ x 6½.

TEXT BOOKS

COMMERCIAL GEOGRAPHY, GENERAL AND REGIONAL. By J. F. Unstead and E. G. R. Taylor. viii and 238 pp. Maps, index. George Philip & Son, Ltd., London, 1911. 2s 6d. 7½ x 5. [Gives Physical Geography outlines as bases for the study of commercial geography.]

A HISTORY OF TENNESSEE. From 1663 to 1911. For use in Schools. By G. R. McGee. 302 pp. ills., appendix, index. American Book Company, New York. 1911. 75 cents. 7½ x 5½.

EUROPE, A SUPPLEMENTARY GEOGRAPHY. By James F. Chamberlain and Arthur H. Chamberlain. (The Continents and Their People). ix and 258 pp. Ills. index. The Macmillan Co., New York. 1912. 55 cents. 7½ x 5.

L'EUROPE, LA FRANCE. Par F. Schrader et L. Gallouédec. 2e Année. 440 pp. Maps, ills. Hachette et Cie, Paris. 1911. Fr. 3.50. 7½ x 5. [Designed especially for normal schools. The second half of the book is given to France. Written on the same plan as the "Cours de Géographie" published by Hachette & Co., one of the best series of geographical text books in Europe.]

ELEMENTARY GEOGRAPHY. A Text-Book for Children. By Charles F. King. vi and 222 pp. Maps, ills., index. Charles Scribner's, New York. 1909. 10½ x 8½.

THE NEW OUTLOOK GEOGRAPHY. Book 1: How People Live. Part I.—The British Isles. Part II.—Outside the British Isles. By W. C. Brown and P. H. Johnson. 252 pp. Ills. 1s 6d. Book 2: The Home of Man. Part I.—The British Isles. By W. C. Brown and P. H. Johnson. 343 pp. Maps, ills,. index. 2s 6d. George G. Harrap & Co., London. 1911. 7½ x 5 each.

GENERAL

LINKS WITH THE PAST IN THE PLANT WORLD. By A. C. Seaward. viii and 142 pp. Ills., bibliography, index. University Press, Cambridge, 1911. 40 cents. 6½ x 5.

PRIMITIVE ANIMALS. By Geoffrey Smith. x and 156 pp. Ills., index. University Press, Cambridge. 1911. 40 cents. 6½ x 5. [Gives a simple account of modern views on the relationships of the chief groups of the animal kingdom and their classifications.]

THE DAWN OF HISTORY. By J. L. Myres. Home University Library. 256 pp. Index. Henry Holt & Co., New York. 1911. 50 cents. 7 x 4½.

ISLAM. A Challenge to Faith. Studies on the Mohammedan Religion and the Needs and Opportunities of the Mohammedan World from the Standpoint of Christian Missions. By Samuel M. Zwemer. xix and 295 pp. Maps, ills., index. Student Volunteer Movement for Foreign Missions, New York. 1907. 8½ x 5½. [This edition (1909) is brought up to date especially in reference to current literature and bibliography.]

THE MEDITERRANEAN. By Ellis W. Heaton. The Junior Scientific Geography, Book IV. 111 pp. Maps, ills. Ralph, Holland & Co., London. 1911. 1s. 7½ x 5.

SHADE TREES IN TOWNS AND CITIES. Their Selection, Planting, and Care as Applied to the Art of Street Decoration; Their Diseases and Remedies; Their Municipal Control and Supervision. By William Solotaroff. xviii and 287 pp. Ills., index. John Wiley & Sons, New York. 1911. ,$3. 9 x 6. [Authoritative, interesting and timely in view of the great growth of interest in the planting of trees.]

STATISTICAL ABSTRACT OF FOREIGN COUNTRIES. Parts I-III.—Statistics of Foreign Commerce. October 1909. 470 pp. Appendix. Bureau of Statistics, Dept. of Commerce and Labor.

THE TRADE OF THE EAST INDIA COMPANY FROM 1709 TO 1813. By F. P. Robinson. Le Bas Prize Essay: 1911. vi and 186 pp. University Press, Cambridge, 1912. $1. 7½ x 5. [Traces the gradual development of the trading corporation into a political power and describes the economic and other causes that led to this transformation.]

THE OLD 'COUNTRY TRADE' OF THE EAST INDIES. By W. H. Coates. xiv and 205 pp. Map, ills. Imray, Laurie, Norie & Wilson, Ltd., London. 1911. 7½ x 5.

CURRENT GEOGRAPHICAL PAPERS

NORTH AMERICA

United States

ANDERSON, R. Preliminary Report on the Geology and Possible Oil Resources of the South End of the San Joaquin Valley, Cal. Map. *Bull. 471-A*, pp. 102-132, U. S. Geol. Surv., 1912.

ATWOOD, W. W. Geology and Mineral Resources of Parts of the Alaska Peninsula. 137 pp. Maps, ills., index. *Bull. 467, U. S. Geol. Surv.*, 1911.

BARROWS, H. K., AND OTHERS. Connecticut River Drainage Basin. Ill. *Water-Supply Paper 261*, pp. 135-168, U. S. Geol. Surv., 1911.

BARROWS, H. K., AND OTHERS. Susquehanna River Drainage Basin. *Water-Supply Paper 261*, pp. 250-277, U. S. Geol. Surv., 1911.

BUTTS, C. T., N. DALE, AND OTHERS. Structural Materials. 134 pp. Maps. Advance Chapter from Contr. to Econ Geol., 1910. *Bull. 470-G., U. S. Geol. Surv.*, 1911.

CARNEY, F. Glaciation in Ohio. Reprinted from *Bull. Sci. Laboratories of Denison Univ.*, Vol. 16, 1910, pp. 183-231.

CARNEY, F. Transportation in Ohio. Reprinted from *Bull. Sci. Laboratories of Denison Univ.*, Vol. 16, 1910, pp. 125-135.

GRAVES, H. S. Forest Preservation. Ills. *Ann. Rep. Bd. Regents Smiths. Inst.*, 1910, pp. 433-445. Washington. 1911.

GRAVES, H. S. The Problem of Forestry. Ills. *Bull. Geogr. Soc. of Philadelphia*, Vol. 9, 1911, No. 4, pp. 1-6.

HALL, WILLIAM L., and H. MAXWELL. Uses of Commercial Woods of the United States: II. Pines. *Bull. 99, Forest Service*, U. S. Dep. of Agric., 96 pp. Washington. 1911.

HARPER, R. M. The River-Bank Vegetation of the Lower Apalachicola, and a New Principle Illustrated Thereby. Ill. Reprinted from *Torreya*, Vol. II, 1911, pp. 225-234.

HENRY, A. J. Variations of Temperature at Summit and Base Stations in the Central Rocky Mountain Region. *Bull. Mt. Weather Observ.*, Vol. 4, Part 3, 1911, pp. 103-114. Washington.

MARSHALL, R. B. Results of Spirit Leveling in Texas, 1896 to 1910, inclusive. 133 pp. Ills. *Bull. 468, U. S. Geol. Surv.*, 1911.